

Lockheed Martin

**LOCKHEED MARTIN'S NUMBER PORTABILITY ADMINISTRATION CENTER**  
**and the**  
**FCC FIELD TEST**

The Chicago Number Portability Administration Center (NPAC) provided the platform for the Field Test participants to conduct Turn-up Testing between their SOA/LSMS applications and the NPAC. Each participant was assigned an individual Testing Support Representative and each participant completed the 806 Turn-up Test cases devised to ensure that all required functionality was in place and working as specified in the FRS and IIS. These test scripts, written by Lockheed Martin, provided the testing backbone which permitted all participants the opportunity to perform the same battery of tests for each functional area and ensure compliance with the Industry's Local Number Portability (LNP) requirements.

Lockheed Martin hosted daily testing status reviews to ensure that all test results for the previous period were clearly communicated and that plans for the next test cycle were in place and communicated to all participants. Daily reports providing testing and project status were also published by Lockheed Martin.

Issues which caused change to the LNP standards and processes were brought to the NANC LNPA T&O Task Force for industry consensus. Lockheed Martin has been intimately involved in the efforts to refine and control these standards and processes and was able to implement changes which affected the NPAC in a timely manner to support the needs and requirements of the participants.

At the completion of the Turn-up Testing requirement, Lockheed Martin provided a dedicated, production, computer system platform for the Field Test to be conducted without interruption. This permitted other testing efforts to continue, in parallel, on test-bed configurations provided by Lockheed Martin. Personnel were made available by Lockheed Martin to support the Field Test as was necessary.

The Field Test provided the forum to exercise and validate Lockheed Martin NPAC processes, procedures and organizational structures that will be in place in the "live" production environment. Also, the Field Test provided the opportunity to exercise and validate the Lockheed Martin NPAC application software which was designed, developed, implemented and fully tested during the preceding six month period.

Lockheed Martin is pleased to have been part of the team of dedicated and knowledgeable individuals who contributed to making the Field Test a "first of its kind" industry success.

MCI

**MCI Local Number Portability**

Summary of findings:

As requested by the FCC Field trial Coordinator, this evaluation is being submitted to assess MCI's ability to implement Location Routing Number (LRN) for Local Number Portability on a national level based on the successful FCC Field Trial results concluded on 9/26/1997.

MCI participated for the full duration in the Illinois Field Trial as a Local Service Provider and Inter-Exchange Carrier using its local Bensenville EO involving a Nortel DMS-100 and long distance switch network. Testing the LRN technology was performed internally as well as externally with the other participating service providers.

MCI performed successfully the requisite requirements mandated by the FCC to implement LNP commercially. These are again based on the results of the FCC Field Trial. MCI has demonstrated its capability in the following areas:

- Testing of all Operational Support Systems (OSS)
- Service Activation associated with porting requests
- Network validation of call flow testing to include both local and long distance arenas
- Validation of AMA switch records and ability to process these records
- Certification of LNP specific applications and network components
- Network monitoring and surveillance

Test cases were performed using multiple scenarios with no ending degradation. MCI successfully and quickly performed corrective action (if needed) on any discrepancy found during the trial.

Network testing was based on the types of local and long distance services commercially available today. In addition, enhanced services to include 911 was also performed with no degradation.

MCI feels it is ready to offer commercial service in those regions in which NPAC certification has been successfully completed.

## Sprint

The objective of the Local Number Portability (LNP) Federal Communication Commission (FCC) Field Trial was to assess the technology developed to implement Location Routing Number (LRN), and ten digit Global Title Routing Number Portability, in adherence to requirements specified by the Illinois Commerce Commission (ICC). The ICC developed requirements include; administration, provisioning, billing, and call processing components of Number Portability.

The LNP FCC Field Trial began August 11, 1997, and concluded on September 26, 1997. Participants in the LNP FCC Field Trial were Ameritech, AT&T, MCI, TCG, and Sprint. In the test interval phase, Sprint ported test numbers with MCI in the Des Plaines rate center, and TCG, in the Park Ridge rate center.

Approximately 170 tests were executed in the combined rate centers, covering all known dialed services (i.e. 1+, 0+, 0-, Custom Calling, CLASS, ISDN, E911, PIC, 10XXX, 800, LIDB, CNAM, etc.). Sprint found no functional issues in the LRN or ten-digit global title routing during the test interval. The technology functionality in the test environment for Number Portability proved to be acceptable.

An unacceptable condition that negatively impacted test progress was the instability of the interfaces between the Number Portability Administration Center (NPAC), Local Service Management System (LSMS), and Service Order Administration (SOA) applications. It is a priority that all systems maintain a high reliability and availability to ensure near real time customer ported data is delivered to the Number Portability Service Control Points (NP/SCPs) for correct and time critical call routing. The stability of all system interfaces is mandatory to proceed to a commercial environment.

Extensive regression testing was performed due to the lack of availability of the administration systems (NPAC, LSMS, and SOA) during the trial. This instability directly resulted in inconsistencies between routing data that was applied to the service provider's NP/SCPs. The inconsistency of data loaded caused ported number call processing to work in only partial segments of the MSA network.

The administration and provisioning process execution was not acceptable. Considerable effort was required by all test participants in correcting switch data fills, routing arrangements, SS7 network criteria, and Service Control Point (SCP) LNP record data before an effective test effort could be initiated.

The Number Portability requirements to perform all originating and terminating billing have not been completed. Sprint will continue to work with the industry to manage these issues to completion.

In summary, Sprint evaluates the Number Portability technology as specified and tested, is viable for a commercial introduction.

Sprint believes that the current level of reliability and instability of the administration and provisioning applications and interfaces is unacceptable for commercial introduction. Recognizing the significant impact of LNP to customer service,

Sprint recommends that traditional high quality performance levels be achieved prior to live porting.

Additionally, Sprint recommends to better facilitate future testing and ongoing LNP implementation, the development of network topology (e.g. switching, trunking and SS7 connections) be included in detailed interconnection agreements with participants.

## TCG

TCG participated in FCC LNP Field Test (MSA 1 - Chicago) from 8/29/97 to 9/26/97. Requirements for participation included Generic upgrade of our 5ESS switch to the 5E11 software release, upgrades to our network elements, and the addition of translations to the STP network and service development in TCG SCPs. Additional operations support systems were developed, deployed and integrated into TCG's infrastructure to support the required service provider Service Management System functions (SOA and LSMS.) TCG also updated our internal systems to accommodate new functionality requirements to transport 911 records for ported numbers.

Our LSMS / SOA systems were required to conform to the FRS and IIS requirements for the Mid-West NPAC in Chicago. We also were required to undergo Inter-operability and Turn-Up Testing of our LSMS and SOA systems with the Mid-West NPAC. This testing was successfully completed in August. Sprint was our test partner in the SP (Service Provider) to SP Test. We successfully executed the required tests in this arena. TCG's unique contribution in this phase was completing the entrance criterion with a true third-party commercial system, thereby demonstrating the integrity of the process which produced the Interoperability Interface Specification created through the Illinois process.

TCG had the unique opportunity to perform the role of a service provider entering the portability process in an area already opened to portability. This role was an integral part of the Illinois LNP FCC Field Test as it was determined by the test committee that this process should be tested. TCG was more than delighted to test this category.

TCG ported numbers in and out of its switch with all the participating companies except MCI. Of the six rate centers/districts open for testing, we participated in four -- Downers Grove, Stewart, Joliet and Park Ridge.

Number[s] were ported in/out with Ameritech in Stewart and Joliet, ATT in Downers Grove and Sprint in Park Ridge. The porting processes included, code opening process, manual faxing of LSRs and FOCs, interaction of our SOA and LSMS systems with the NPAC, porting in and out of telephone numbers, conflict resolutions, cancel pending ports, disconnect process and porting back to original.

TCG's participation in this test demonstrated the technical feasibility of traditional CLECs to deploy LRN Technology. TCG validated that new market entrants can join in number portability while it is in process. In addition to the above updates, signaling translations were successfully coordinated through an independent provider, Illuminet.

A significant learning from the trial experience was the importance of highly available support systems and networks. This is a change in paradigm from traditional 'back-office system' performance perspectives. The impact of system unavailability of any industry participant was felt by all others.

TCG executed 124 test cases, and proved that the LRN technology

## FCC FIELD TEST FINAL REPORT

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performs successfully in our network. We at TCG are confident that we can play our role in the telecommunications industry, to provide efficient, database-driven LNP services on a commercial basis.

### III. Test Matrix

The test matrix below contains a listing by test number, explanation of the test case for each test that was completed during the Field Test. A, B, C, D and E headings are in reference to Service Provider A – E.

The service provider that successfully completed the test number and test case has placed an "X" next to the test case under their service provider designation.

Test Matrix

TEST NUMBER	TEST CASE	A	B	C	D	E
<b>Section 4.3</b>	<b>Provider to Provider Interfaces</b>					
<b>4.3.2</b>	<b>Provisioning Process</b>		X			
<b>4.3.3</b>	<b>Repair Process</b>					
4.3.3.1.1	Trouble Report initiated by a Ported number, reporting to LSP providing service	X		X		X
4.3.3.1.2	Trouble Report initiated by a Ported number, reporting to an LSP not providing service	X				X
4.3.3.1.3	Trouble Report initiated by a Ported number, reporting to an Operator Service Provider	X				
<b>4.3.4</b>	<b>Conflict Resolution</b>	X	X			X
<b>Section 4.4</b>	<b>Porting Process</b>					
<b>4.4.1</b>	<b>Basic Porting Sequence</b>					
4.4.1.1.1	Convert Non-ported number to Ported, changing loop and CO	X	X		X	X
<b>4.4.2</b>	<b>Cancellation of Service Order</b>					
4.4.2.1.1	Cancel Order in Progress Converting Non-ported number to Ported	X	X			X
<b>4.4.3</b>	<b>Disconnect for Ported Number</b>					
4.4.3.1.1	Disconnect Ported Subscribers Service	X	X	X	X	X
<b>4.4.4</b>	<b>Basic Un-Porting Sequence</b>					
4.4.4.1.1	Convert Ported number to Non-ported, changing loop and CO	X	X	X	X	X
<b>Section 4.5</b>	<b>Message Interactions</b>					
<b>4.5.1</b>	<b>Basic Message Interactions</b>					
4.5.1.1	Basic Calls	X				
4.5.1.1.1	Intra-LATA (SS7) Ported Number to Ported Number	X				

**FCC FIELD TEST FINAL REPORT**

<b>TEST NUMBER</b>	<b>TEST CASE</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
4.5.1.1.2	Intra-LATA Local (SS7) Ported Number to Non-ported Number in an NPA-NXX Opened to Portability	X				
4.5.1.1.3	Intra-LATA (SS7) Ported Number to Non-ported Number in an NPA-NXX Not Opened to Portability	X				
4.5.1.1.4	Intra-LATA (SS7) Non-ported Number in an NPA-NXX Opened to Portability to Ported Number	X				
4.5.1.1.5	Intra-LATA (SS7) Non-ported Number in an NPA-NXX Opened to Portability to Non-ported Number in an NPA-NXX Opened to Portability	X				
4.5.1.1.6	Intra-LATA (SS7) Non-ported Number in an NPA-NXX Opened to Portability to Non-ported Number in an NPA-NXX Not Opened to Portability	X				
4.5.1.1.7	Intra-LATA (SS7) Non-ported Number in an NPA-NXX Not Opened to Portability to Ported Number	X				
4.5.1.1.8	Intra-LATA (SS7) Non-ported Number in an NPA-NXX Not Opened to Portability to Non-ported Number in an NPA-NXX Opened to Portability	X				
4.5.1.1.9	Intra-LATA (SS7) Ported Number calls a Ported number ported from itself to another switch	X				
4.5.1.1.10	Intra-LATA (SS7) Ported Number to Ported Number	X	X	X	X	X
4.5.1.1.11	Intra-LATA Local (SS7) Ported Number to Non-ported Number in an NPA-NXX Opened to Portability	X	X	X	X	X
4.5.1.1.12	Intra-LATA (SS7) Ported Number to Non-ported Number in an NPA-NXX Not Opened to Portability	X	X	X	X	X
4.5.1.1.13	Intra-LATA (SS7) Non-ported Number in an NPA-NXX Opened to Portability to Ported Number	X	X	X		X
4.5.1.1.14	Intra-LATA (SS7) Non-ported Number in an NPA-NXX Opened to Portability to Non-ported Number in an NPA-NXX Opened to Portability	X	X	X	X	X
4.5.1.1.15	Intra-LATA (SS7) Non-ported Number in an NPA-NXX Opened to Portability to Non-ported Number in an NPA-NXX Not Opened to Portability	X	X	X	X	X
4.5.1.1.16	Intra-LATA (SS7) Non-ported Number in an NPA-NXX Not Opened to Portability to Ported Number	X	X		X	X



**FCC FIELD TEST FINAL REPORT**

<b>TEST NUMBER</b>	<b>TEST CASE</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
4.5.1.1.17	Intra-LATA (SS7) Non-porting Number in an NPA-NXX Not Opened to Portability to Non-porting Number in an NPA-NXX Opened to Portability	X	X		X	X
4.5.1.1.18	Intra-LATA Toll (SS7) Ported Number to Ported Number	X	X		X	
4.5.1.1.19	Intra-LATA Toll (SS7) Ported Number to Non-porting Number in an NPA-NXX Opened to Portability	X	X		X	
4.5.1.1.20	Intra-LATA (SS7) Ported Number to Non-porting Number in an NPA-NXX Not Opened to Portability	X	X		X	
4.5.1.1.21	Intra-LATA Toll (SS7) Non-porting Number in an NPA-NXX Opened to Portability to Ported Number	X	X		X	
4.5.1.1.22	Intra-LATA Toll (SS7) Non-porting Number in an NPA-NXX Opened to Portability to Non-porting Number in an NPA-NXX Opened to Portability	X	X			
4.5.1.1.23	Intra-LATA Toll (SS7) Non-porting Number in an NPA-NXX Opened to Portability to Non-porting Number in an NPA-NXX Not Opened to Portability	X				
4.5.1.1.24	Intra-LATA (SS7) Non-porting Number in an NPA-NXX Not Opened to Portability to Ported Number	X	X			
4.5.1.1.25	Intra-LATA Toll (SS7) Non-porting Number in an NPA-NXX Not Opened to Portability to Non-porting Number in an NPA-NXX Opened to Portability	X	X			
4.5.1.1.26	Intra-LATA Toll Dial-Around (SS7) Ported Number to Ported Number	X	X		X	X
4.5.1.1.27	Intra-LATA Toll Dial-Around (SS7) Non-porting Number in an NPA-NXX Opened to Portability to Ported Number	X	X		X	X
4.5.1.1.28	Intra-LATA Toll (SS7) Ported Number to Ported Number	X	X		X	
4.5.1.1.29	Intra-LATA Toll (SS7) Non-porting Number in an NPA-NXX Opened to Portability to Ported Number	X	X			
4.5.1.1.30	Intra-LATA Toll Dial-Around (SS7) Ported Number to Ported Number	X			X	
4.5.1.1.31	Intra-LATA Toll Dial-Around (SS7) Non-porting Number in an NPA-NXX Opened to Portability to Ported Number	X			X	
4.5.1.2	Default Routing					
4.5.1.2.1	Intra-LATA Default routing (SS7) Ported Number to Ported Number		X	X		X

FCC FIELD TEST FINAL REPORT

TEST NUMBER	TEST CASE	A	B	C	D	E
4.5.1.2.2	Intra-LATA Default Routing Ported Number to Non-ported Number in NPA-NXX Opened to Portability			X		X
4.5.1.2.3	Intra-LATA Toll Default routing (SS7) Ported Number to Ported Number					X
4.5.1.2.4	Intra-LATA Toll Default routing (SS7) Ported Number to Ported Number					X
4.5.1.2.5	Intra-LATA Default Routing Ported Number to Ported Number where originating switch provides the ported number to terminating switch			X		
4.5.1.6.2	Intra-LATA Originating Non-LNP capable Ported Number to Ported Number	X				
4.5.1.6.3	Intra-LATA Toll Ported to Ported	X				
4.5.1.7	Cause Code Value 26					
4.5.1.7.2	Ported Number to Ported Number	X		X		X
4.5.1.7.3	Ported to Ported Number	X				
<b>4.5.2</b>	<b>Service Tests</b>					
4.5.2.1	Three way calling (TWC)					
4.5.2.1.1	Three way calling (TWC) From ported, to ported, 3 <sup>rd</sup> ported	X		X	X	X
4.5.2.1.2	Three way calling (TWC) From ported, to ported, 3 <sup>rd</sup> party non-ported	X		X	X	X
4.5.2.1.3	Three way calling (TWC) From non-portable, to ported, 3 <sup>rd</sup> ported	X		X	X	X
4.5.2.1.4	Three way calling (TWC) From a non-portable, to ported, 3 <sup>rd</sup> party ported	X				X
4.5.2.1.7	Three way calling (TWC) From a ported, to ported, 3 <sup>rd</sup> not within the LATA	X		X		X
4.5.2.1.8	Three way calling (TWC) From a non-portable, to ported, 3 <sup>rd</sup> non-portable	X				X
4.5.2.1.9	Three way calling (TWC) From a non-portable, to ported, 3 <sup>rd</sup> non-portable	X				X
4.5.2.1.10	Three way calling (TWC) From a non-portable, to ported, 3 <sup>rd</sup> non-portable and not in the LATA	X				X
4.5.2.1.11	Three way calling (TWC) From a ported, to remote non-portable, 3 <sup>rd</sup> ported	X				X
4.5.2.1.12	Three way calling (TWC) From a ported, to remote non-portable, 3 <sup>rd</sup> ported	X				X
4.5.2.1.13	Three way calling (TWC) From a non-portable, to non-portable, 3 <sup>rd</sup> ported	X				X
4.5.2.1.14	Three way calling (TWC) From a non-portable, to any, 3 <sup>rd</sup> ported	X				X
4.5.2.1.15	Three way calling (TWC) From ported, to non-portable, 3 <sup>rd</sup> non ported	X				X

TEST NUMBER	TEST CASE	A	B	C	D	E
4.5.2.1.16	Three way calling (TWC) From ported, to non-portable, 3 <sup>rd</sup> non-portable	X				X
4.5.2.1.17	Three way calling (TWC) From ported, to non-portable, 3 <sup>rd</sup> non-portable number outside the LATA	X				X
4.5.2.2	Call Waiting (CWT)					
4.5.2.2.1	Call Waiting (CWT) On ported, to ported, call ported	X		X	X	X
4.5.2.2.2	Call Waiting (CWT) On ported, to non-portable, call ported	X		X		X
4.5.2.2.3	Call Waiting (CWT) On ported, to ported, from a third ported	X			X	X
4.5.2.2.4	Call Waiting (CWT) On ported, to ported, call from ported	X		X		X
4.5.2.2.5	Call Waiting (CWT) From ported, call non-portable with CWT, from non-portable	X				X
4.5.2.2.6	Call Waiting (CWT) From a ported with CWT, call non-portable, from remote	X				X
4.5.2.2.7	Call Waiting (CWT) From non-portable, call ported with CWT, from non-portable	X				X
4.5.2.2.8	Call Waiting (CWT) On non-portable, to non-portable with CWT, from ported	X				X
4.5.2.2.9	Call Waiting (CWT) On non-portable with CWT, call ported, from a remote non-portable	X		X		X
4.5.2.2.10	Call Waiting (CWT) On non-portable, call ported with CWT, from another non-portable	X				
4.5.2.2.12	CWT Call Waiting On non-portable with CWT, call ported, From another ported	X				X
4.5.2.3	Call Waiting (CCW)					
4.5.2.3.1	Call Waiting (CCW) On ported, call ported, from ported	X		X	X	X
4.5.2.3.2	Call Waiting (CCW) On non-portable, call ported, from ported	X		X		
4.5.2.3.3	Call Waiting (CCW), On ported, call ported, from ported	X				X
4.5.2.3.4	Call Waiting (CCW) On ported, from non-portable, from ported	X		X		
4.5.2.3.5	Call Waiting (CCW) From ported, call non-portable, from non-portable	X				
4.5.2.3.6	Call Waiting (CCW) From ported, call non-portable, from remote	X				X
4.5.2.3.7	Call Waiting (CCW) On ported, from non-portable, call ported	X				
4.5.2.3.8	Call Waiting (CCW) On non-portable, from non-portable, call ported	X				X

**FCC FIELD TEST FINAL REPORT**

<b>TEST NUMBER</b>	<b>TEST CASE</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
4.5.2.3.9	Call Waiting (CCW) on non-portable, from non-portable, call ported remote	X		X		X
4.5.2.3.10	Call Waiting (CCW) On ported, from non-portable, call ported	X				
4.5.2.3.12	Cancel Call Waiting (CCW) On non-portable, from non-portable, call ported	X				X
4.5.2.4	Call Forwarding (CFW)					
4.5.2.4.1	Call Forwarding (CFW) On ported, CFW to ported, call from ported	X		X	X	X
4.5.2.4.2	Call Forwarding (CFW) On ported, CFW to ported, call from non-portable	X		X		X
4.5.2.4.3	Call Forwarding (CFW) On non-ported, CFW to ported, call from ported.	X				X
4.5.2.4.4	Call Forwarding (CFW) On non-portable, CFW on ported, call from non-portable	X				X
4.5.2.4.5	Call Forwarding (CFW) On ported, set CFW non-portable, call from ported	X		X		X
4.5.2.4.6	Call Forwarding (CFW) On ported, set CFW ported, call from non-portable	X				X
4.5.2.4.7	Call Forwarding (CFW) On non-portable, set CFW ported, call from ported	X		X		X
4.5.2.5	Call Forwarding Don't Answer (CFDA)					
4.5.2.5.1	Call Forwarding Don't Answer (CFDA) On ported, set CFDA to ported, call from ported	X		X	X	X
4.5.2.5.2	Call Forwarding Don't Answer: (CFDA) On ported, set CFW on non-portable, call from ported	X				X
4.5.2.5.3	Call Forwarding Don't Answer: (CFDA) On non-ported, set CFW on ported, call from ported	X		X		X
4.5.2.5.4	Call Forwarding Don't Answer: (CFDA) On non-portable, set CFW on ported, call from non-portable	X				X
4.5.2.5.5	Call Forwarding Don't Answer: (CFDA) On ported, set CFW on non-portable, call from another ported number	X		X		X
4.5.2.5.6	Call Forwarding Don't Answer: (CFDA) On ported, set CFW on non-portable, call from non-portable	X				X
4.5.2.5.7	Call Forwarding Don't Answer: (CFDA) On non-portable, set CFW on ported, call from ported	X				X
4.5.2.5.8				X		
<b>4.5.3</b>	<b>Intra-LATA CLASS Features</b>					
4.5.3.1	Intra-LATA Call Return, Automatic Call Back (AC)			X		

**FCC FIELD TEST FINAL REPORT**

<b>TEST NUMBER</b>	<b>TEST CASE</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
4.5.3.1.1	Intra-LATA Local Call Return, Automatic Call Back (AC) Ported Number (A) to Ported Number (B)	X	X		X	
4.5.3.1.2	Intra-LATA Toll Call Return, Automatic Call Back (AC) Using Dial-around DN Ported Number (A) to Ported Number (B)	X			X	
4.5.3.2	Intra-LATA Automatic Recall			X		
4.5.3.2.1	Automatic Recall, Ported Number to Ported Number	X	X		X	
4.5.3.2.2	Intra-LATA Toll using (Dial-around DN) Automatic Recall, Ported Number to Ported Number	X				
4.5.3.3	Intra-LATA Caller ID & Per Call Privacy Feature			X		
4.5.3.3.1	Caller ID, Ported Number to Ported Number	X	X			X
4.5.3.3.2	Intra-LATA Toll, Caller ID & Per Call Privacy Feature using (Dial-around DN) Ported Number to Ported Number	X				
4.5.3.4	Intra-LATA Customer Originated Trace (COT)			X		
4.5.3.4.1	COT, Ported Number(A) to Ported Number(B)	X	X		X	X
4.5.3.4.2	Intra-LATA Toll Customer Originated Trace (COT), Ported Number (A) to Ported Number (B)	X				
4.5.3.5	Intra-LATA, Selective Call Forwarding			X		
4.5.3.5.1	Selective Call Forwarding Ported Number (A) to Ported Number (B)	X	X			X
4.5.3.5.2	Intra-LATA Toll Selective Call Forwarding, Ported Number (A) to Ported Number (B)	X				
4.5.3.5	Intra-LATA Unidentified Call Rejection					
4.5.3.5.1	Unidentified Call Rejection, ported Number (A) to Ported Number (B)	X				
4.5.3.5.2	Intra-LATA Toll Unidentified Call Rejection, ported Number (A) to Ported Number (B)	X				
4.5.3.6	Intra-LATA Selective Call Rejection			X		
4.5.3.6.1	Selective Call Rejection Ported Number (A) to Ported Number (B)	X	X		X	X
4.5.3.6.2	Intra-LATA Toll Selective Call Rejection Ported Number (A) to Ported Number (B)	X			X	
4.5.3.7	Intra-LATA, Caller Name Delivery			X		
4.5.3.7.1	Caller Name Delivery Ported Number to Ported Number	X			X	

FCC FIELD TEST FINAL REPORT

TEST NUMBER	TEST CASE	A	B	C	D	E
4.5.3.7.2	Intra-LATA Toll, Caller Name & Per Call Privacy Feature using (Dial-around DN) Ported Number to Ported Number	X			X	
<b>4.5.4</b>	<b>800/888 Call</b>					
4.5.4.1	Intra-LATA 800/888 Call Ported Number to Ported Number	X		X		X
4.5.4.2	Intra-LATA 800/888 Call Ported Number to Non-ported Number in an NPA-NXX Opened to Portability	X		X		
<b>4.5.5</b>	<b>900 and 500 Numbers</b>					
4.5.5.1	900 Call					
4.5.5.1.1	Intra-LATA 900 Call Ported Number to Ported Number	X				
4.5.5.1.2	Intra-LATA 900 Call Ported Number to Non-ported Number in an NPA-NXX Opened to Portability	X				
4.5.5.2	500 Calls					
4.5.5.2.1	Intra-LATA 500 Call Ported Number to Ported Number	X				
4.5.5.2.2	Intra-LATA 500 Call Ported Number to Non-ported Number in an NPA-NXX Opened to Portability	X				
<b>4.5.6</b>	<b>911 Services</b>					
4.5.6.1.1	911 Call From a Ported number in an open NPA-NXX	X				
4.5.6.2	911 Calls Using A 911 Access Tandem to PSAP					
4.5.6.2.1	911 Call From a Non Ported number in an open NPA-NXX	X		X	X	X
4.5.6.2.2	911 Call From a Ported number in an open NPA-NXX	X		X	X	X
4.5.6.2.3	911 Call from a Ported number with ANI failure	X	X			
4.5.6.2.4	911 Call From a Ported number can be ported between several service providers verifying surcharge and 911 database integrity	X				X
4.5.7	Inter-LATA					
4.5.7.1	Pre-Subscription (SS7)					
4.5.7.1.1	Inter-LATA Presubscription (SS7): Ported Number to Ported Number	X		X		
4.5.7.1.2	Inter-LATA Presubscription (SS7): Ported Number to Non-ported Number in an NPA-NXX Opened to Portability			X		
4.5.7.1.3	Inter-LATA Presubscription (SS7): Ported Number to Number in an NPA-NXX Not Opened to Portability	X	X	X		X

**FCC FIELD TEST FINAL REPORT**

<b>TEST NUMBER</b>	<b>TEST CASE</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
4.5.7.1.4	Inter-LATA Presubscription (SS7): Non-ported Number in an NPA-NXX Opened to Portability to Ported Number			X		
4.5.7.1.5	Inter-LATA Presubscription (SS7): Non-ported Number in an NPA-NXX Opened to Portability to Non-ported Number in an NPA-NXX Opened to Portability			X		
4.5.7.1.6	Inter-LATA Presubscription (SS7): Non-ported Number in an NPA-NXX Opened to Portability to Number in an NPA-NXX Not Opened to Portability	X	X	X	X	X
4.5.7.1.7	Inter-LATA Presubscription (SS7): Number in an NPA-NXX Not Opened to Portability to Ported Number	X		X	X	
4.5.7.1.8	Inter-LATA Presubscription (SS7): Number in an NPA-NXX Not Opened to Portability to Non-ported Number in an NPA-NXX Opened to Portability	X	X	X	X	
4.5.7.2	Dial-Around (SS7)				X	
4.5.7.2.1	Inter-LATA Dial-Around (SS7): Ported Number to Ported Number		X	X		
4.5.7.2.2	Inter-LATA Dial-Around (SS7): Non-ported Number in an NPA-NXX Opened to Portability to Ported Number			X		
4.5.7.3	Default Routing				X	
4.5.7.8.1	Inter-LATA Originating Access Tandem with JIP: Ported Number to Ported Number	X				
4.5.7.10	Cause Code Value 26 X(intra-LATA)		X			
4.5.7.10.1	Inter-LATA Cause Code Value 26: Ported Number to Ported Number	X				
4.5.7.11.2	Inter-LATA 800/888 Call: Ported Number to Non-ported Number in an NPA-NXX Opened to Portability			X		
<b>4.5.8</b>	<b>LNP Interactions with AIN Services</b>					
4.5.8.1	Public Office Dialing Plan (PODP) AIN Trigger					
4.5.8.1.1	LNP Interactions with a PODP number E.O. Direct Connect	X				
4.5.8.1.2	LNP Interactions with a PODP number with Play & Collect E.O. Direct Connect	X				
4.5.8.1.3	LNP Interactions with a PODP/LNP number at Tandem	X				
4.5.8.1.4	LNP Interactions with a LNP trigger at EO and PODP number AIN trigger at Tandem.	X				
4.5.8.1.5	LNP Interactions with a PODP number at EO using 10xxx dialing dial around	X				

**FCC FIELD TEST FINAL REPORT**

<b>TEST NUMBER</b>	<b>TEST CASE</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
4.5.8.1.6	LNP Interactions with a PODP number EO Direct Connect	<b>X</b>				
4.5.8.1.7	LNP Interactions with a PODP number EO Direct Connect	<b>X</b>				
4.5.8.2	OFF-HOOK DELAY (OHD) AIN Trigger					
4.5.8.2.1	LNP Interactions with a Off-Hook Delay number End office	<b>X</b>				<b>X</b>
4.5.8.2.2	LNP Interactions with a Off-Hook Delay number End office	<b>X</b>				
4.5.8.2.3	LNP Interactions with a Off-Hook Delay number End office	<b>X</b>				
4.5.8.3	Custom Dialing Plan (CDP) AIN Trigger					
4.5.8.3.1	LNP Interactions with a CDP Trigger End office	<b>X</b>				
4.5.8.3.2	LNP Interactions with a CDP Trigger End office	<b>X</b>				
4.5.8.4	Terminating Attempt Trigger (TAT)					
4.5.8.4.1	LNP Interactions with a Terminating Attempt trigger number, End office	<b>X</b>				
4.5.8.4.2	LNP Interactions with a Terminating Attempt Trigger number, End office.	<b>X</b>				
<b>Section 4.6</b>	<b>Special message interactions</b>					
<b>4.6.2</b>	<b>ISDN INTER-WORKING</b>					
4.6.2.1	Intra-LATA (SS7) ISDN (Ported) Speech Call to ISDN (Ported) Number	<b>X</b>				
4.6.2.2	Intra-LATA (SS7) ISDN (Ported) Speech Call to POTS (Ported)	<b>X</b>				<b>X</b>
4.6.2.3	Intra-LATA (SS7) ISDN (Ported) Speech Call to ISDN (non-Ported) in an NPA- NXX Opened to Portability	<b>X</b>				<b>X</b>
4.6.2.4	Intra-LATA (SS7) ISDN (Ported) Speech Call to POTS (non-Ported) in an NPA- NXX Opened to Portability	<b>X</b>				<b>X</b>
4.6.2.5	Intra-LATA (SS7) ISDN (Ported) Speech Call to ISDN (non-Ported) in an NPA- NXX not Opened to Portability	<b>X</b>				<b>X</b>
4.6.2.6	Intra-LATA (SS7) ISDN (Ported) Speech Call to POTS (non-Ported) in an NPA- NXX not Opened to Portability	<b>X</b>				<b>X</b>
4.6.2.22	Intra-LATA (SS7) ISDN (non Ported) Speech Call in an NPA-NXX Opened to Portability to ISDN (Ported) Number	<b>X</b>				
4.6.2.23	Intra-LATA (SS7) ISDN (non Ported) Speech Call in an NPA-NXX Opened to Portability to POTS (Ported) Number	<b>X</b>				<b>X</b>



**FCC FIELD TEST FINAL REPORT**

<b>TEST NUMBER</b>	<b>TEST CASE</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
4.6.2.24	Intra-LATA (SS7) ISDN (non Ported) Speech Call in an NPA-NXX Opened to Portability to ISDN (non Ported) Number in an NPA-NXX Opened to Portability	<b>X</b>				<b>X</b>
4.6.2.25	Intra-LATA (SS7) ISDN (non Ported) Speech Call in an NPA-NXX Opened to Portability to POTS (non-Ported) Number in an NPA-NXX Opened to Portability	<b>X</b>				<b>X</b>
4.6.2.26	Intra-LATA (SS7) ISDN (non Ported) Speech Call in an NPA-NXX Opened to Portability to ISDN (non-Ported) Number in an NPA-NXX not Opened to Portability	<b>X</b>				<b>X</b>
4.6.2.27	Intra-LATA (SS7) ISDN (non Ported) Speech Call in an NPA-NXX Opened to Portability to POTS (non-Ported) Number in an NPA-NXX not Opened to Portability	<b>X</b>				<b>X</b>
4.6.2.43	Intra-LATA (SS7) ISDN Speech Call (non Ported) in an NPA-NXX not Opened to Portability to ISDN (Ported) Number	<b>X</b>				
4.6.2.44	Intra-LATA (SS7) ISDN Speech Call (non Ported) in an NPA-NXX not Opened to Portability to POTS (Ported) Number	<b>X</b>				<b>X</b>
4.6.2.45	Intra-LATA (SS7) ISDN Speech Call (non Ported) in an NPA-NXX not Opened to Portability to ISDN (non Ported) Number in an NPA-NXX Opened to Portability	<b>X</b>				<b>X</b>
4.6.2.46	Intra-LATA (SS7) ISDN Speech Call (non Ported) in an NPA-NXX not Opened to Portability to POTS (Ported) Number in an NPA-NXX Opened to Portability	<b>X</b>				<b>X</b>
4.6.2.57	Intra-LATA (SS7) POTS Call (Ported) to ISDN (Ported)	<b>X</b>				
4.6.2.58	Intra-LATA (SS7) POTS Call (Ported) to ISDN (non-Ported) in an NPA-NXX Opened to Portability	<b>X</b>				<b>X</b>
4.6.2.59	Intra-LATA (SS7) POTS Call (Ported) to ISDN (non-Ported) in an NPA-NXX not Opened to Portability	<b>X</b>				<b>X</b>
4.6.2.60	Intra-LATA (SS7) POTS Call (non Ported) in an NPA-NXX Opened to Portability to ISDN (Ported)	<b>X</b>				
4.6.2.61	Intra-LATA (SS7) POTS Call (non Ported) in an NPA-NXX Opened to Portability to ISDN (non-Ported) in an NPA-NXX Opened to Portability	<b>X</b>				<b>X</b>

**FCC FIELD TEST FINAL REPORT**

<b>TEST NUMBER</b>	<b>TEST CASE</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
4.6.2.62	Intra-LATA (SS7) POTS Call (non Ported) in an NPA-NXX Opened to Portability to ISDN (non-Ported) in an NPA-NXX not Opened to Portability	X				X
4.6.2.63	Intra-LATA (SS7) POTS Call (non Ported) in an NPA-NXX not Opened to Portability to ISDN (Ported)	X				
4.6.2.64	Intra-LATA (SS7) POTS Call (non Ported) in an NPA-NXX not Opened to Portability to ISDN (non-Ported) in an NPA-NXX Opened to Portability	X				X
<b>Section 4.7</b>	<b>Cellular and PCS Interconnection</b>					
<b>4.7.1</b>	<b>Call Through Tests from WSP Network to LEC Network</b>	X			X	
<b>4.7.2</b>	<b>Call Through Tests from LEC Network to WSP Network</b>	X			X	
<b>Section 4.8</b>	<b>Operator Services</b>					
<b>4.8.1</b>	<b>CALL COMPLETION FOR 0-/00-CALLS (STATION PAID BILLING)</b>					
4.8.1.1	Intra LATA Calls					
4.8.1.1.1	0- Intra LATA Call from a Ported Number to a Ported Number with Originating LRN obtained from LNP Database	X	X	X	X	X
4.8.1.1.2	0-Intra LATA Call from a Ported Number to a Non-Ported Number in a Portable NPA-NXX with Originating LRN obtained from LNP Database	X	X	X		X
4.8.1.1.3	0- Intra LATA Call from a Ported Number to a Number in a Non-Portable NPA-NXX with Originating LRN info obtained LNP Database	X	X			X
4.8.1.1.4	0- Intra LATA Call from a Ported Number to a Number in a Non-Portable NPA-NXX with Originating LRN obtained from Trunk Sub-Group	X				
4.8.1.1.5	0- Intra LATA Call from a Ported Number to a Ported Number with LNP Database Not Available (Default Routing)	X				
	Default Routing					
4.8.1.2	Inter LATA Calls					
4.8.1.2.1	00- Inter LATA Call from a Ported Number to a Ported Number with Originating LRN obtained from LNP Database	X		X	X	

**FCC FIELD TEST FINAL REPORT**

<b>TEST NUMBER</b>	<b>TEST CASE</b>	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
4.8.1.2.2	00- Inter LATA Call from a Ported Number to a Non-Ported Number in a Portable NPA-NXX with Originating LRN obtained from LNP Database	X		X		
4.8.1.2.3	00- Inter LATA Call from a Ported Number to a Number in a Non-Portable NPA-NXX with Originating LRN info obtained from LNP Database	X	X	X		X
4.8.1.2.4	00- Inter LATA Call from a Ported Number to a Number in a Non-Portable NPA-NXX with Originating LRN from Trunk Sub-Group	X	X			
4.8.1.2.5	00- Inter LATA Call from a Ported Number to a Ported Number with LNP Database Not Available (Default Routing)			X		
	Default Routing					
<b>4.8.2</b>	<b>BILL TO THIRD</b>					
4.8.2.1	Intra LATA Calls					
4.8.2.1.1	All Numbers (Calling Party, Called Party, Billed Number) are Ported on Different Networks and Originating LRN obtained from LNP Database	X	X	X	X	X
4.8.2.1.2	Calling Party is a Ported Number, Called Party is a Ported Number, Billing Number is Not Ported but within Portable NPA-NXX and Originating LRN obtained from LNP Database	X	X	X		X
4.8.2.1.3	Calling Party is a Ported Number, Called Party is a Non-Ported Number within a Portable NPA-NXX, Billing Number is Ported and Originating LRN obtained from LNP Database	X	X	X		X
4.8.2.1.4	Calling Party is a Ported Number, Called Party is a Non-Ported Number within a Portable NPA-NXX, Billing Number is a Non-Ported Number with a Portable NPA-NXX and Originating LRN obtained from LNP Database	X	X	X		X
4.8.2.1.5	Calling Party is a Ported Number, Called Party is a Number in a Non-Portable NPA-NXX, Billing Number is a Number with a Non-Portable NPA-NXX and Originating LRN obtained from JIP	X	X			X

## FCC FIELD TEST FINAL REPORT

TEST NUMBER	TEST CASE	A	B	C	D	E
4.8.2.1.6	Calling Party is a Ported Number, Called Party is a Number in a Non-Portable NPA-NXX, Billing Number is a Number with a Non-Portable NPA-NXX and Originating LRN obtained from Trunk Sub-Group		X			
<b>4.8.3</b>	<b>Automated Operator Handled Calls</b>					
4.8.3.1	Inter LATA Calls					
4.8.3.1.1	All Numbers (Calling Party, Called Party, Billed Number) are Ported on Different Networks and Originating LRN obtained from LNP Database	X		X	X	X
4.8.3.1.2	Calling Party is a Ported Number, Called Party is a Ported Number, Billing Number is Not Ported but within Portable NPA-NXX and Originating LRN obtained from LNP Database	X		X		X
4.8.3.1.3	Calling Party is a Ported Number, Called Party is a Non-Ported Number within a Portable NPA-NXX, Billing Number is Ported and Originating LRN obtained from LNP Database	X		X		X
4.8.3.1.4	Calling Party is a Ported Number, Called Party is a Non-Ported Number within a Portable NPA-NXX, Billing Number is a Non-Ported Number with a Portable NPA-NXX and Originating LRN obtained from LNP Database	X		X		X
4.8.3.1.5	Calling Party is a Ported Number, Called Party is a Number in a Non-Portable NPA-NXX, Billing Number is a Number with a Non-Portable NPA-NXX and Originating LRN obtained from LNP Database	X	X	X		X
<b>4.8.4</b>	<b>COLLECT</b>					
4.8.4.1	Intra LATA Calls					
4.8.4.1.1	Both Numbers (Calling Party, Called Party) are Ported on Different Networks and Originating LRN obtained from LNP Database	X	X	X	X	X
4.8.4.1.2	Calling Party is a Ported Number, Called Party is a Non-Ported Number within a Portable NPA-NXX and Originating LRN obtained from LNP Database	X		X		X
4.8.4.1.3	Calling Party is a Ported Number, Called Party is a Number in a Non-Portable NPA-NXX and Originating LRN obtained from LNP Database	X		X		X

## FCC FIELD TEST FINAL REPORT

TEST NUMBER	TEST CASE	A	B	C	D	E
4.8.4.2	Inter LATA Calls					
4.8.4.2.1	Both Numbers (Calling Party, Called Party) are Ported on Different Networks and Originating LRN obtained from LNP Database	X		X		
4.8.4.2.2	Calling Party is a Ported Number, Called Party is a Non-Ported Number within a Portable NPA-NXX and Originating LRN obtained from LNP Database	X		X		
4.8.4.2.3	Calling Party is a Ported Number, Called Party is a Number in a Non-Portable NPA-NXX and Originating LRN obtained from LNP Database	X		X		X
<b>4.8.5</b>	<b>CALLING CARD</b>					
4.8.5.1	Intra LATA Calls					
4.8.5.1.1	All Numbers (Calling Party, Called Party, Calling card number) are Ported on Different Networks and Originating LRN obtained from LNP Database	X	X		X	
4.8.5.1.2	Calling Party is a Ported Number, Called Party is a Ported Number, Calling card Number is Not Ported but within Portable NPA-NXX and Originating LRN obtained from LNP Database	X				
4.8.5.1.3	Calling Party is a Ported Number, Called Party is a Non-Ported Number within a Portable NPA-NXX, Calling card Number is Ported and Originating LRN obtained from LNP Database	X	X			
4.8.5.1.4	Calling Party is a Ported Number, Called Party is a Non-Ported Number within a Portable NPA-NXX, Calling card Number is a Non-Ported Number with a Portable NPA-NXX and Originating LRN obtained from LNP Database	X				
4.8.5.1.5	Calling Party is a Ported Number, Called Party is a Number in a Non-Portable NPA-NXX, Calling card Number is a Number with a Non-Portable NPA-NXX and Originating LRN obtained from LNP Database	X				
4.8.5.2	Inter LATA Calls					
4.8.5.2.1	All Numbers (Calling Party, Called Party, Calling card number) are Ported on Different Networks and Originating LRN obtained from LNP Database	X			X	

## FCC FIELD TEST FINAL REPORT

TEST NUMBER	TEST CASE	A	B	C	D	E
4.8.5.2.2	Calling Party is a Ported Number, Called Party is a Ported Number, Calling card Number is Not Ported but within Portable NPA-NXX and Originating LRN obtained from LNP Database	X				
4.8.5.2.3	Calling Party is a Ported Number, Called Party is a Non-Ported Number within a Portable NPA-NXX, Calling card Number is Ported and Originating LRN obtained from LNP Database	X				
4.8.5.2.4	Calling Party is a Ported Number, Called Party is a Non-Ported Number within a Portable NPA-NXX, Calling card Number is a Non-Ported Number with a Portable NPA-NXX and Originating LRN obtained from LNP Database	X				
4.8.5.2.5	Calling Party is a Ported Number, Called Party is a Number in a Non-Portable NPA-NXX, Calling card Number is a Number with a Non-Portable NPA-NXX and Originating LRN obtained from LNP Database	X				
<b>4.8.6</b>	<b>BUSY LINE VERIFY/EMERGENCY INTERRUPT</b>					
4.8.6.1	Intra LATA Calls					
4.8.6.1.1	Calling Party is ported, Called Party is Ported, Originating OSS is not the Inward Operator for Called Party but is LNP capable	X	X			
4.8.6.1.2	Calling Party is non-porting, Called Party is Ported, Originating OSS is not the Inward Operator for Called Party and is <u>not</u> LNP capable	X				
4.8.6.2	Inter LATA Calls					
4.8.6.2.1	Calling Party is ported, Called Party is Ported, Originating OSS is not the Inward Operator for Called Party but is LNP capable		X			
<b>4.8.7</b>	<b>BRANDING</b>					
4.8.7.1.1	ACCS Call from a Ported Calling Party without SS7, Originating LRN obtained from LNP Database	X				
4.8.7.2.1	ACCS Call from a Ported Calling Party with SS7, Originating LRN obtained from JIP	X				

# FCC FIELD TEST FINAL REPORT

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